

**ABSTRACT OF THE DISCLOSURE**

Nucleic acid sequence including:  $P_x - S_x - B_n - (ZR) - Hir(As_mR)- protein(Y) - T$ .  $P_x$  is a promoter sequence.  $S_x$  is a nucleic acid encoding a signal sequence or leader sequence.  $B_n$  is 1-15 codons, when  $n$  is an integer from 1 to 15, or a chemical bond, when  $n = 0$ .  $Z$  is a codon for lysine or arginine.  $R$  is an arginine codon or a chemical bond.  $Hir$  is a nucleic acid sequence coding for hirudin or hirudin derivative which is at least 40% homologous to a natural hirudin isoform.  $As_m$  is a chemical bond, when  $m = 0$ , or 1-10 codons, when  $m$  is an integer from 1 to 10.  $Protein(Y)$  is a nucleic acid sequence encoding a protein that is produced in and secreted by yeast.  $T$  is an untranslated expression-enhancing nucleic acid sequence. Proteins thereof, plasmids thereof, multicopy vectors thereof, host cells thereof, and processes thereof.

1.00 2.00 3.00 4.00 5.00 6.00